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PATENT

Atty Docket No.: 10010944-2  
App. Ser. No.: 10/696,837

DEC 05 2008

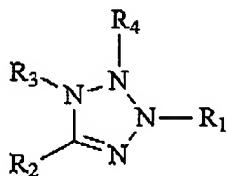
**IN THE CLAIMS:**

Please find a listing of the claims below, with the statuses of the claims shown in parentheses. This listing will replace all prior versions, and listings, of claims in the present application.

8. [Original] A molecular system configured between a pair of electrodes, said molecular system including at least one organic non-polymeric molecule that changes color when oxidized or reduced by an electric current.

9. [Original] The molecular system of Claim 8 wherein said organic non-polymeric molecule comprises a substituted tetrazole.

10. [Original] The molecular system of Claim 9 wherein said substituted tetrazole is represented by the formula



where R<sub>1</sub>, R<sub>2</sub>, R<sub>3</sub>, and R<sub>4</sub> are independently H, alkyls, or aryls and the ring carbon is in the 3-position.

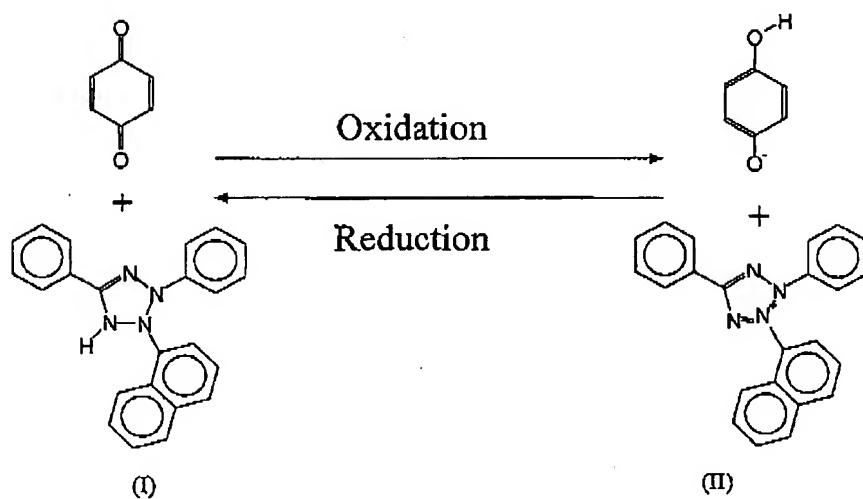
11. [Original] The molecular system of Claim 10 wherein any two of R<sub>1</sub>, R<sub>2</sub>, R<sub>3</sub>, and R<sub>4</sub> are alkyls and/or aryls, and the remainder hydrogen.

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12. [Original] The molecular system of Claim 10 wherein the ring carbon is in the 2-position.

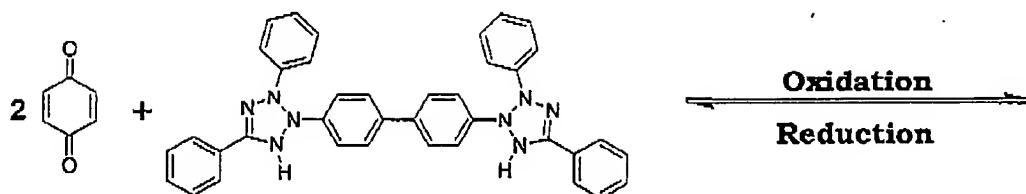
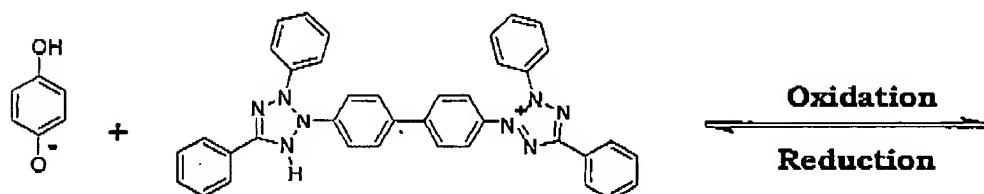
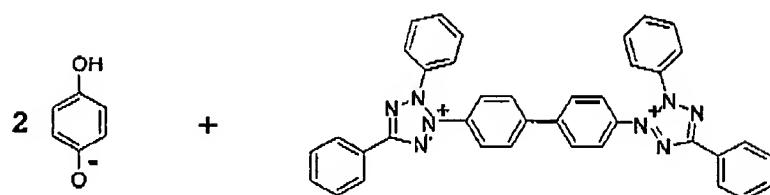
13. [Original] The molecular system of Claim 10 wherein said molecular system comprises:



wherein (I) is purple and has a  $\Delta E_{\text{HOMO/LUMO}} = 2$  eV and wherein (II) is colorless and has a  $\Delta E_{\text{HOMO/LUMO}} > 3.5$  eV.

14. [Original] The molecular system of Claim 10 wherein said molecular system comprises:

## PATENT

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App. Ser. No.: 10/696,837Blue       $\Delta E$  (HOMO/LUMO) = 1.85 eVMagenta       $\Delta E$  (HOMO/LUMO) = 2.35 eVColorless       $\Delta E$  (HOMO/LUMO) > 3.5 eV

wherein (III) is blue and as a  $\Delta E_{\text{HOMO/LUMO}} = 1.85$  eV, wherein (IV) is magenta and has a  $\Delta E_{\text{HOMO/LUMO}} = 2.35$  eV, and wherein (V) is colorless and has a  $\Delta E_{\text{HOMO/LUMO}} > 3.5$  eV.